

Serial No. 10/050,923  
January 19, 2004  
Reply to the Office Action dated October 28, 2003  
Page 2 of 8

**AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**LISTING OF CLAIMS:**

Claim 1 (original): A surface acoustic wave device comprising:  
a piezoelectric substrate;  
a plurality of interdigital electrodes for converting an input signal to a surface acoustic wave to be output, the plurality of interdigital electrodes being arranged on the piezoelectric substrate in a surface acoustic wave propagation direction;  
a plurality of terminals provided on the piezoelectric substrate and arranged to transmit signals, including signal terminals for transmitting balanced-signals;  
a plurality of signal lines provided on the piezoelectric substrate and arranged to connect the signal terminals and the interdigital electrodes to each other; and  
a ground line provided on the piezoelectric substrate between one of the plurality of signal terminals and an adjacent one of the plurality of signal lines.

Claim 2 (original): A surface acoustic wave device according to claim 1, wherein the ground line is arranged to surround one of the plurality of signal lines that has a pad shape.

Claim 3 (original): A surface acoustic wave device according to claim 1, wherein a surface acoustic wave resonator is connected to one of the interdigital electrodes and is disposed on the piezoelectric substrate.

Claim 4 (original): A surface acoustic wave device according to claim 1, wherein the device has a balance-unbalance conversion function.

Serial No. 10/050,923  
January 19, 2004  
Reply to the Office Action dated October 28, 2003  
Page 3 of 8

Claim 5 (original): A surface acoustic wave device according to claim 1, wherein the number of electrode fingers of the interdigital electrode connected to the signal terminals for transmitting balanced signals is even.

Claim 6 (original): A communication device comprising at least one surface acoustic wave device according to claim 1.

Claim 7 (original): A surface acoustic wave device comprising:  
a piezoelectric substrate;

a plurality of interdigital electrodes for converting an input signal to a surface acoustic wave to be output, the plurality of interdigital electrodes being arranged on the piezoelectric substrate in a surface acoustic wave propagation direction;

a plurality of terminals provided on the piezoelectric substrate and arranged to transmit signals, including signal terminals for transmitting balanced-signals;

a plurality of signal lines provided on the piezoelectric substrate and arranged to connect the signal terminals and the interdigital electrodes to each other; and

a ground electrode finger provided in an outermost portion of at least one of two adjacent interdigital electrodes which is opposed to that of the other of the two adjacent interdigital electrodes in such a manner that a tip of a ground electrode finger extends further in the interdigitation-span direction compared to the other electrode fingers of the one of two adjacent interdigital electrodes.

Claim 8 (original): A surface acoustic wave device according to claim 7, wherein a surface acoustic wave resonator is connected to one of the interdigital electrodes and is disposed on the piezoelectric substrate.

Serial No. 10/050,923  
January 19, 2004  
Reply to the Office Action dated October 28, 2003  
Page 4 of 8

Claim 9 (original): A surface acoustic wave device according to claim 7, wherein the device has a balance-unbalance conversion function.

Claim 10 (original): A surface acoustic wave device according to claim 7, wherein the number of electrode fingers of the interdigital electrode connected to the signal terminals for transmitting balanced signals is even.

Claim 11 (original): A communication device comprising at least one surface acoustic wave device according to claim 7.

Claim 12 (currently amended): A surface acoustic wave device comprising:  
a piezoelectric substrate;

a plurality of interdigital ~~electrodes-transducers~~ for converting an input signal to a surface acoustic wave to be output, the plurality of interdigital ~~electrodes-transducers~~ being arranged on the piezoelectric substrate in a surface acoustic wave propagation direction;

a plurality of terminals provided on the piezoelectric substrate and arranged to transmit signals, including signal terminals for transmitting balanced-signals;

a plurality of signal lines provided on the piezoelectric substrate and arranged to connect the signal terminals and the plurality of interdigital electrodes-transducers to each other; and

a first of the plurality of interdigital transducers that is connected to one of the plurality of signal lines and a second of the plurality of interdigital transducers that is adjacent to the first of the plurality of interdigital transducers being formed in such a manner that the widths of bus bars of the first and second of the plurality of interdigital transducers are decreased such that opposing portions of the first and second IDTs are reduced in size as compared to the remaining ones of the plurality of interdigital transducers  
~~a first of the interdigital electrodes that is connected to one of the plurality of~~

Serial No. 10/050,923  
January 19, 2004  
Reply to the Office Action dated October 28, 2003  
Page 5 of 8

~~signal lines and a second of the interdigital electrodes that is adjacent to the first of the interdigital electrodes being formed in such a manner that the widths of bus bars of the first and second interdigital electrodes are decreased such that opposing portions of the first and second interdigital electrodes are reduced in size as compared to the remaining ones of the interdigital electrodes.~~

Claim 13 (currently amended): A surface acoustic wave device according to claim 12, wherein a surface acoustic wave resonator is connected to one of the plurality of interdigital electrodes-transducers and is disposed on the piezoelectric substrate.

Claim 14 (original): A surface acoustic wave device according to claim 12, wherein the device has a balance-unbalance conversion function.

Claim 15 (currently amended): A surface acoustic wave device according to claim 12, wherein the number of electrode fingers of the interdigital ~~electrode-transducer~~ connected to the signal terminals for transmitting balanced signals is even.

Claim 16 (original): A communication device comprising at least one surface acoustic wave device according to claim 12.

Claim 17 (original): A surface acoustic wave device comprising:  
a piezoelectric substrate;  
a plurality of interdigital electrodes for converting an input signal to a surface acoustic wave to be output, the plurality of interdigital electrodes being arranged on the piezoelectric substrate in a surface acoustic wave propagation direction;  
a plurality of terminals arranged on the piezoelectric substrate to transmit signals including two signal terminals for transmitting balanced-signals and one terminal for transmitting an unbalanced-signal;

Serial No. 10/050,923  
January 19, 2004  
Reply to the Office Action dated October 28, 2003  
Page 6 of 8

a signal line arranged on the piezoelectric substrate so as to connect said one terminal for transmitting an unbalanced-signal and the interdigital electrodes to each other; and

a ground line arranged on the piezoelectric substrate between at least one of the two terminals for transmitting balanced-signals and the signal line that is adjacent thereto.

Claim 18 (original): A surface acoustic wave device according to claim 17, wherein a surface acoustic wave resonator is connected to one of the interdigital electrodes and is disposed on the piezoelectric substrate.

Claim 19 (original): A surface acoustic wave device according to claim 17, wherein the device has a balance-unbalance conversion function.

Claim 20 (original): A surface acoustic wave device according to claim 17, wherein the number of electrode fingers of the interdigital electrode connected to the two signal terminals for transmitting balanced signals is even.

Claim 21 (original): A communication device comprising at least one surface acoustic wave device according to claim 17.